

WHAT IS CLAIMED IS:

**Claim 1** A system for providing a mix minus signal from a feedback signal and a talent signal including in combination:  
a cancellation circuit responsive to said talent signal to delay said talent signal in a ~~variable~~ delay and to gain adjust said talent signal in delayed or undelayed form in a ~~variable~~ gain circuit thereby providing a cancellation signal, with the amount of said delay or gain responsive to ~~operator~~ adjustment;  
a combining circuit responsive to said feedback signal and said cancellation signal to provide said mix minus signal.

**Claim 2** A system for providing a mix minus signal from a feedback signal and a talent signal including in combination:  
a cancellation circuit responsive to said talent signal to delay said talent signal in a variable delay and to gain adjust said talent signal in delayed or undelayed form in a variable gain circuit thereby providing a cancellation signal, with the amount of at least one of said delay or gain responsive to said mix minus signal or said feedback signal or both;  
a combining circuit responsive to said feedback signal and said cancellation signal to provide said mix minus signal.

**Claim 3** A system for providing a mix minus signal from a feedback signal and a talent signal including in combination:  
a cancellation circuit responsive to said talent signal to delay said talent signal in a variable delay and to gain adjust

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said talent signal in delayed or undelayed form in a variable gain circuit thereby providing a cancellation signal, with the amount of said delay and gain automatically responsive to at least one of said mix minus signal and said feedback signal and; a combining circuit responsive to said feedback signal and said cancellation signal to provide said mix minus signal.

Claim 4 A system as claimed in claim 1, 2 or 3 wherein said amount of said delay is responsive to said feedback signal and the amount of said gain is responsive to said mix minus signal.

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Claim 5 A system as claimed in claim 1, 2 or 3 wherein said amount of said delay is responsive to said mix minus signal and the amount of said gain is responsive to said feedback signal.

Claim 6 A system as claimed in claim 1, 2 or 3 wherein said amount of said delay and said amount of said gain is responsive to said feedback signal.

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Claim 7 A system as claimed in claim 1, 2 or 3 wherein said amount of said delay and said amount of said gain is responsive to said mix minus signal.

Claim 8 A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said mix minus signal and said talent signal wherein said talent signal is in delayed form.

**Claim 9** A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said feedback signal and said talent signal wherein said talent signal is in delayed form.

**Claim 10** A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said mix minus signal and said talent signal wherein said talent signal is in undelayed form.

**Claim 11** A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said feedback signal and said talent signal wherein said talent signal is in undelayed form.

**Claim 12** A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said mix minus signal and said talent signal wherein said talent signal has been gain adjusted in said gain adjust circuit.

**Claim 13** A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said feedback signal and said talent signal wherein said talent signal has been gain

adjusted in said gain adjust circuit.

**Claim 14** A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said mix minus signal and said talent signal wherein said talent signal has been gain adjusted in said gain adjust circuit.

**Claim 15** A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said feedback signal and said talent signal wherein said talent signal has been gain adjusted in said gain adjust circuit.

**Claim 16** A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said feedback signal and said cancellation signal.

**Claim 17** A system as claimed in claim 1, 2 or 3 wherein at least one of said amount of said delay and said amount of said gain is responsive to a correlation of said mix minus signal and said cancellation signal.

**Claim 18** A system as claimed in claim 1, 2 or 3 wherein said delay is automatically adjustable in response to changes in relative delay of said talent signal and the talent signal component of said feedback signal.

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**Claim 19** A system as claimed in claim 1, 2 or 3 wherein said delay is automatically adjusted in response to comparison of said feedback signal and said talent signal in undelayed form, and said gain is automatically adjusted in response to said mix minus signal and said talent signal in delayed form.

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